WHITE SANDS MISSILE RANGE

CLIMATE CALENDAR

BY

GEORGE M. FUGATE

AND

JOHN A. CHAMBERS

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM
UNITED STATES ARMY ELECTRONICS COMMAND

DISPOSITION INSTRUCTIONS

Destroy this report when it is no longer needed. Do not return to the originator.

DISCLAIMER

The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

The citation of trade names and names of manufacturers in this report is not to be construed as official Government indorsement or approval of commercial products or services referenced herein.

UNCLASSIFIED

Security Classification

DOCUMENT CONTROL DATA - R & D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author)	2a. REPORT SECURITY CLASSIFICATION
U. S. Army Electronics Command Ft. Monmouth, New Jersey	UNCLASSIFIED
	2b. GROUP

3. REPORT TITLE

WHITE SANDS MISSILE RANGE CLIMATE CALENDAR

4. DESCRIPTIVE NOTES (Type of report and inclusive dates)

5. AUTHOR(S) (First name, middle initial, last name)

George M. Fugate and John A. Chambers

6. REPORT DATE	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS
April 1972	28	NONE

8a. CONTRACT OR GRANT NO.	9a. ORIGINATOR'S REPORT NUMBER(S)
b. PROJECT NO. DA Task 1T665702D127-02	DR-707
c.	9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report)
d.	

10. DISTRIBUTION STATEMENT

Approved for public release; distribution unlimited.

11. SUPPLEMENTARY NOTES	12. SPONSORING MILITARY ACTIVITY
	U. S. Army Electronics Command Atmospheric Sciences Laboratory White Sands Missile Range, New Mexico

13. ABSTRACT

This is the fifth edition of the White Sands Missile Range Climate Calendar, which was first published in May, 1963.

Mean daily maximum and minimum temperatures, and extreme temperatures for the period of record (1950-1971) are tabulated in calendar form for "A" Station, the forecast center located at Headquarters, White Sands Missile Range, New Mexico. Averages of temperature, relative humidity, wind and cloudiness are included for each month, as well as maximum 24-hour and monthly rainfall.

Supplementary tables give monthly, seasonal and annual values of maximum winds, degree days, solar radiation, means and extremes of station pressure, the greatest monthly and single-storm snowfall, and the average six-hourly relative humidities. Also included are the average number of days with the occurrence of precipitation, distant lightning, thunderstorms, and visibility restrictions.

DD FORM 1 NOV 68 1473 REPLACES DD FORM 1473, 1 JAN 64, WHICH IS OBSOLETE FOR ARMY USE.

UNCLASSIFIED

Security Classification

WHITE SANDS MISSILE RANGE

CLIMATE CALENDAR

By

George M. Fugate

and

John A. Chambers

DR-707

DA Task 1T665702D127-02

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

FOREWORD

This report is a revision of Data Report 421, published under the same title in March 1969. The revision updates the original data to cover the period through December 1971.

ABSTRACT

This is the fifth edition of the White Sands Missile Range Climate Calendar, which was first published in May, 1963.

Mean daily maximum and minimum temperatures, and extreme temperatures for the period of record (1950-1971) are tabulated in calendar form for "A" Station, the forecast center located at Headquarters, White Sands Missile Range, New Mexico. Averages of temperature, relative humidity, wind and cloudiness are included for each month, as well as maximum 24-hour and monthly rainfall.

Supplementary tables give monthly, seasonal and annual values of maximum winds, degree days, solar radiation, means and extremes of station pressure, the greatest monthly and single-storm snowfall, and the average six-hourly relative humidities. Also included are the average number of days with the occurrence of precipitation, distant lightning, thunderstorms, and visibility restrictions.

ACKNOWLEDGEMENTS

We are indebted to Paul H. Taft who prepared the first four editions of this work. The format and basic contents are largely his effort.

CONTENTS

INTRODUCTION

The weather site designated as "A" Station is in the Headquarters area of White Sands Missile Range (WSMR). Its geographic coordinates are 32° 22.7' North and 106° 28.8' West (Fig. 1). The elevation of the Station Barometer is 4,238.4 feet above sea level. The climatological data in this report are for a period of 22 years, 1950 through 1971, unless otherwise indicated. (Daily temperature means and extremes only have been computed through December 1971.) The station was initially operated by the Air Force, but since April 1961 it has been manned by U. S. Army personnel.

Temperature, wind, precipitation and relative humidity are measured with instruments mounted on the roof of the weather station building, No. 1510. (The elevation of the floor of the instrument shelter is 4,252 feet.) However, since May 1955 wind measurements have been made by an Aerovane mounted on a 13-foot mast 0.5 miles west--279°--from the station, (elevation of Aerovane, 4,304.05 feet) with indicators and recorders for wind speed and direction installed in the weather station building.

Temperature extremes are the highest (maximum) and the lowest (minimum) temperatures which have occurred for each day of the year for the period of record. Temperatures are given in degrees Fahrenheit, wind speeds are in knots, and rainfall and snowfall are reported in inches.

The data in this report are considered to be representative of the Headquarters area. However, due to the great extent and extreme variations in elevation and topography of WSMR (4,000 square miles, from dry lake beds--"playas"--at 3,900 feet to mountain peaks near 9,000 feet, Fig. 1 and 2) conditions in other parts of the range may vary widely. For example, the record low temperature for this station is 6° below zero, while at White Sands National Monument it is 25° below zero, and both of these records occurred on the same date--11 January 1962. Also, severe local thunderstorms may produce torrential rainfall in a comparatively small area with little or no rainfall a few miles distant. On 4 July 1961, 1.80" of rain fell in 48 minutes at "A" Station and the 24-hour total was 2.31", while at Orogrande, 24 miles east, the total rainfall for that day was only 0.02".

The greatest 24-hour rainfall of record on the Range occurred at White Sands National Monument on 21-22 September 1941, with a fall of 5.30". Of this amount, 4.28" fell in five hours--1430-1930 MST, 21 September. This, however, was a general storm, with rainfall totals at a few other stations on or near WSMR as follows: Alamogordo, 2.60"; El Paso Airport, 3.42"; Las Cruces, 4.61"; Orogrande, 3.27", Tularosa, 4.75". The greatest 24-hour rainfall of record at "A" Station is 4.25", which fell on 23-24 August 1959. (See Table III.)

DISCUSSION

COLD SEASON (NOVEMBER-APRIL) WEATHER

December and January are the coldest months, with nearly identical mean temperatures. (See Table I.) February averages nearly 4° warmer, but it has the same low temperature record as December. The record low temperature, (-6°) occurred on 11 January 1962, when absolute record minima were established at most stations in southern New Mexico, during an extremely severe cold spell.

The average number of days with miminum temperatures at or below freezing is 38, and with 20° or less is only three. The earliest date of the last freezing temperature in spring occurred on 14 February 1950 (see Table V), while the earliest date of a 90° temperature was 14 April 1963. The record high temperature for the cold season, 94°, was recorded on 22 April 1965. Average date of the first fall freeze is 20 November.

Only 30% of the annual rainfall occurs during the cold season, and April (the second driest month) and November (the third driest) altogether account for only 7% of the annual total. This 6-month period averages only three days with the occurrence of thunderstorms out of the annual total of 43 days. The three coldest months receive 77% of the annual snowfall total of 6.0 inches.

April, the windiest month of the year, has an average hourly wind speed of 8.7 knots. Visibility is reduced to 6 miles or less (by fog, snow, blowing dust, etc.) on an average of 21 days during this season. Five of these days occur in March and four in April, while the total for the year is 36 days. (See Table IV).

WARM SEASON (MAY-OCTOBER) WEATHER

Although June and July are the warmest months, August is only slightly cooler (see Table II). The average number of days with a temperature of 100° or more is only 7, three each in June and July, and one in August. Only in occasional years do such high temperatures occur in May, and none have been recorded in September at this station. The greatest number of successive days with 100° or more is 8, from 26 June to 3 July 1960. However, 18 successive days with 99° or more occurred from 24 June to 11 July 1951. It was during these two periods that the absolute record high temperature of 106° occurred four times.

Maximum temperatures at Desert Station (near Army Block House) average about 1.2° higher than at "A" Station during the summer months, so that 100° temperatures can be expected in that area on an average of about 12 days each summer. At Orogrande, about 24 miles east of WSMR Headquarters, summer temperatures average about four degrees higher than at this station, and the absolute record high temperature for Orogrande, 116°, equals the record high temperature for the entire state of New Mexico.

The lowest maximum temperature of occurrence for any year was in 1959, when 99° was recorded only twice. The average number of days with maximum temperature of 90° or more is 84, sixty-seven of which occur during the three warmest months. The earliest date of 95° reading was 11 May 1962, and the average date is 2 June. The latest occurrence of 95° in late summer was on 27 September 1951, and the average date is 4 September, while thre are thirty-six days per year when a maximum of 95° or more is recorded. October mean temperatures are within one degree of the annual mean.

May (the driest month) and June are, on the average, quite dry. Collectively, they contribute only 11% of the total annual rainfall. July, August and September, the wettest months of the year, account for 50% of the average annual rainfall of 10.30", and for 66% of the thunderstorms. Seventy percent of the annual rainfall occurs during the warm season and all but three of the 43 days with thunderstorms. The greatest monthly rainfall of record at this station, 7.42", occurred in June, 1966. The driest year of record was 1956, with a rainfall total of only 3.92", (see Table III.).

August, with an average hourly wind speed of 4.7 knots is the least windy month of the year, while the annual average is 6.1 knots. The prevailing wind direction for 11 of the 12 months is west, but for July it is southeast. Visibility of 6 miles or less occurs on 15 days during the warm season.

COLDEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MEAN MIN	MEAN	HIGH-EST	LOW-EST
MONTH OF DECEMBER	56.0	34.7	45.4	77	8
MONTH OF JANUARY	56.3	34.6	45.5	73	-6
MONTH OF FEBRUARY	60.0	37.6	48.8	81	8
COLDEST 30 DAYS, 12/20 to 1/18	54.3	32.6	43.5	73	-6
COLDEST 15 DAYS, 1/3 to 1/17	54.1	32.2	43.2	73	-6
COLDEST 7 DAYS, 1/8 to 1/14	53.7	32.0	42.9	73	-6

TABLE I. TEMPERATURES DURING COLDEST MONTHS, "A" STATION

WARMEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MEAN MIN	MEAN	HIGH-EST	LOW-EST
MONTH OF JUNE	92.8	69.0	80.9	106	50
MONTH OF JULY	93.3	70.5	81.9	106	59
MONTH OF AUGUST	91.1	68.8	80.0	103	55
WARMEST 30 DAYS, 6/18 to 7/17	94.4	71.0	82.7	106	59
WARMEST 15 DAYS, 6/19 to 7/3	95.2	71.5	83.4	106	59
WARMEST 7 DAYS, 6/22 to 6/28	95.5	72.2	83.9	106	62

TABLE II. TEMPERATURES DURING WARMEST MONTHS, "A" STATION

The following tabulations show the precipitation extremes (greatest and least) of record for White Sands Missile Range and vicinity:

PRECIPITATION EXTREMES, "A" STATION, WHITE SANDS MISSILE RANGE

0.38 inch	8 minutes	1412-1420MST, 27 July 1965
1.80 inch	48 minutes	1530-1618MST, 4 July 1961
2.92 inches	3½ hours	0050-0320MST, 24 August, 1959
3.17 inches	6 hours	2245-0445MST, 23-24 August, 1959
3.72 inches	12 hours	1645-0445MST, 23-24 August, 1959
4.25 inches	24 hours	2210-1925MST, 23-24 August, 1959

Greatest annual rainfall:	20.02 inches in 1958.
Least annual rainfall:	3.92 inches in 1956.
Longest dry spell (no measurable rainfall):	123 days, 2/10-6/11, 1956.
Second longest dry spell:	80 days, 10/8-12/26, 1954.
Greatest seasonal snowfall:	24.5 inches, 1967-1968.
Greatest annual snowfall:	18.5 inches, 1960.

HEAVIEST RAINFALL OF RECORD, WHITE SANDS NATIONAL MONUMENT [3]

0.95 inch	30 minutes	4.28 inches	5 hours
1.50 inch	1 hour	4.40 inches	6 hours
2.50 inches	2 hours	5.17 inches	12 hours
3.50 inches	3 hours	5.30 inches	24 hours, 9/21-22/41

PRECIPITATION EXTREMES, NEW MEXICO STATE UNIVERSITY, LAS CRUCES [8]

Extremely heavy rainfall occurred at the University station from 11:05pm 29 Aug. to 7:00am 30 Aug., 1935, measured as follows:

0.64 inch	5 minutes	2.77 inches	60 minutes
1.06 inch	10 minutes	4.15 inches	2 hours
1.50 inch	15 minutes	4.77 inches	3 hours
1.86 inch	20 minutes	5.91 inches	4 hours
2.48 inches	30 minutes	6.46 inches	7 hours 55 minutes
Greatest 24-hour rainfall:		6.49 inches,	29-30 August, 1935
Greatest monthly rainfall:		7.53 inches,	September, 1941

WETTEST AND DRIEST YEARS, NEW MEXICO STATE UNIVERSITY

15.05 inches in 1881, La Mesilla	13.26 inches in 1931, NMSU
17.09 inches in 1905, NMSU	19.60 inches in 1941, NMSU
14.35 inches in 1926, NMSU	14.01 inches in 1958, NMSU
3.61 inches in 1860, Ft. Fillmore	4.02 inches in 1910, NMSU
3.49 inches in 1873, Ft. Selden	3.81 inches in 1953, NMSU
4.47 inches in 1892, NMSU	3.62 inches in 1964, NMSU

HEAVIEST SNOWFALL OF RECORD, NEW MEXICO STATE UNIVERSITY

	Greatest Monthly	Greatest 24-hours
January	4.7 inches in 1947	4.7 inches in 1947
February	10.4 inches in 1956	9.0 inches in 1956
March	2.7 inches in 1944	2.7 inches in 1944
November	5.0 inches in 1957	5.0 inches in 1957
December	10.3 inches in 1931	9.0 inches in 1931

TABLE III. PRECIPITATION EXTREMES, WSMR AND VICINITY

FIGURE 1. WEATHER STATIONS, WHITE SANDS MISSILE RANGE AND VICINITY

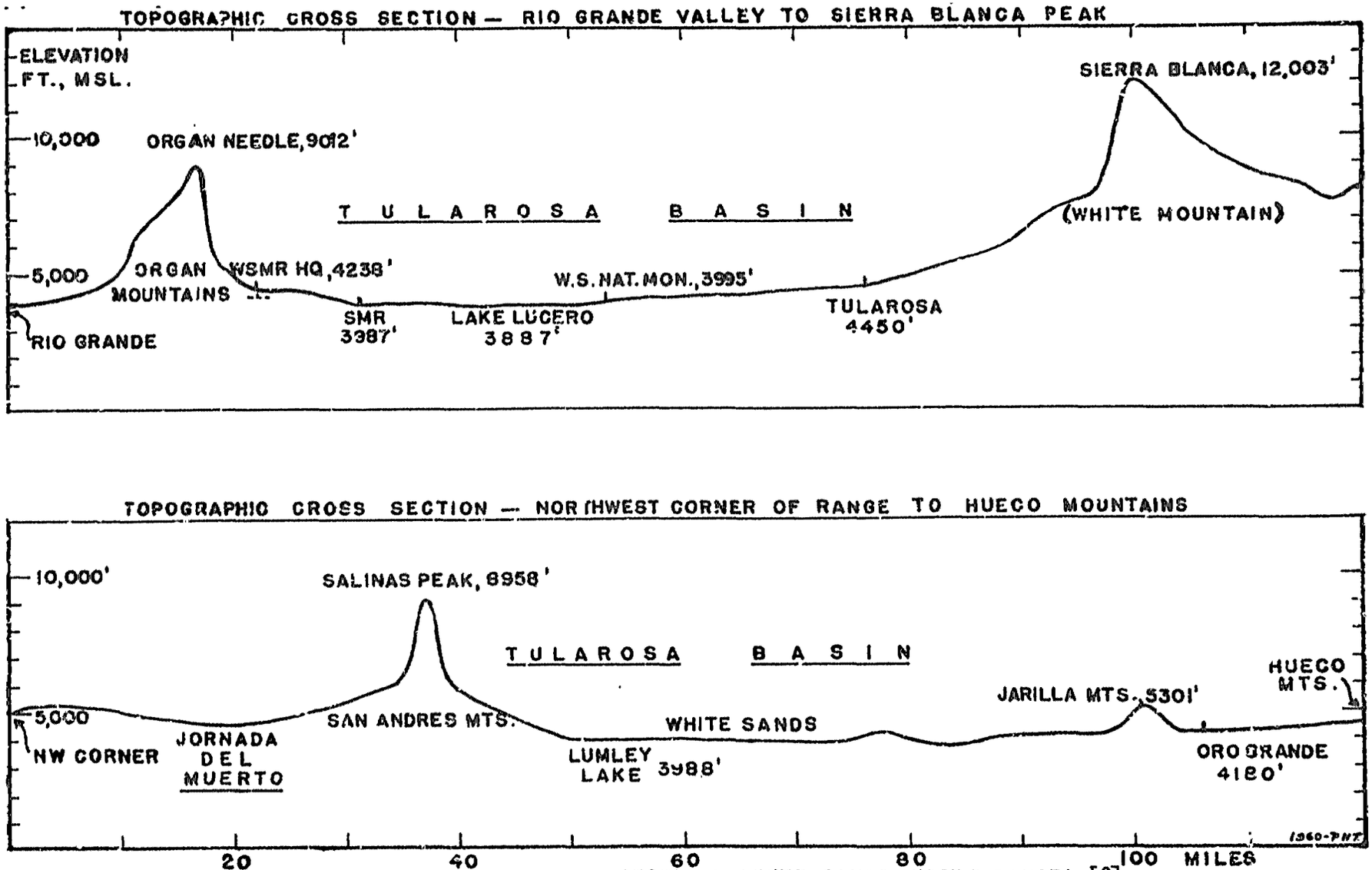

FIG. 2 . TOPOGRAPHIC CROSS SECTIONS, WHITE SANDS MISSILE RANGE [2]

"A" STATION, WHITE SANDS MISSILE RANGE.

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

JANUARY — MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES — JANUARY

1 AVG. HIGH 54 HIGHEST 62 YEAR 1956 AVG. LOW 33 LOWEST 21 YEAR 1970	**2** AVG. HIGH 54 HIGHEST 67 YEAR 1971 AVG. LOW 33 LOWEST 21 YEAR 1970	**3** AVG. HIGH 54 HIGHEST 61 YEAR 1954 AVG. LOW 33 LOWEST 21 YEAR 1970	**4** AVG. HIGH 54 HIGHEST 61 YEAR 1965 AVG. LOW 33 LOWEST 14 YEAR 1971	**5** AVG. HIGH 54 HIGHEST 67 YEAR 1965 AVG. LOW 32 LOWEST 11 YEAR 1971	**6** AVG. HIGH 54 HIGHEST 69 YEAR 1965 AVG. LOW 32 LOWEST 9 YEAR 1971	**7** AVG. HIGH 54 HIGHEST 71 YEAR 1969 AVG. LOW 32 LOWEST 13 YEAR 1971
8 AVG. HIGH 54 HIGHEST 70 YEAR 1969 AVG. LOW 32 LOWEST 18 YEAR 1967	**9** AVG. HIGH 54 HIGHEST 68 YEAR 1953 AVG. LOW 32 LOWEST 14 YEAR 1967	**10** AVG. HIGH 54 HIGHEST 73 YEAR 1953 AVG. LOW 32 LOWEST -2 YEAR 1962	**11*** AVG. HIGH 54 HIGHEST 69 YEAR 1953 AVG. LOW 32 LOWEST -6 YEAR 1962	**12** AVG. HIGH 54 HIGHEST 72 YEAR 1953 AVG. LOW 32 LOWEST 4 YEAR 1962	**13** AVG. HIGH 54 HIGHEST 71 YEAR 1953 AVG. LOW 32 LOWEST 8 YEAR 1963	**14** AVG. HIGH 55 HIGHEST 70 YEAR 1969 AVG. LOW 33 LOWEST 13 YEAR 1964
15 AVG. HIGH 55 HIGHEST 67 YEAR 1957 AVG. LOW 33 LOWEST 19 YEAR 1964	**16** AVG. HIGH 55 HIGHEST 69 YEAR 1967 AVG. LOW 34 LOWEST 21 YEAR 1964	**17** AVG. HIGH 56 HIGHEST 71 YEAR 1971 AVG. LOW 34 LOWEST 22 YEAR 1964	**18** AVG. HIGH 56 HIGHEST 74 YEAR 1971 AVG. LOW 35 LOWEST 23 YEAR 1960	**19** AVG. HIGH 56 HIGHEST 70 YEAR 1959 AVG. LOW 35 LOWEST 22 YEAR 1963	**20** AVG. HIGH 57 HIGHEST 73 YEAR 1971 AVG. LOW 36 LOWEST 16 YEAR 1963	**21** AVG. HIGH 57 HIGHEST 72 YEAR 1971 AVG. LOW 36 LOWEST 23 YEAR 1963
22 AVG. HIGH 57 HIGHEST 73 YEAR 1967 AVG. LOW 37 LOWEST 13 YEAR 1966	**23** AVG. HIGH 58 HIGHEST 73 YEAR 1950 AVG. LOW 37 LOWEST 16 YEAR 1966	**24** AVG. HIGH 58 HIGHEST 76 YEAR 1970 AVG. LOW 37 LOWEST 18 YEAR 1963	**25** AVG. HIGH 59 HIGHEST 72 YEAR 1952 AVG. LOW 38 LOWEST 22 YEAR 1963	**26** AVG. HIGH 59 HIGHEST 75 YEAR 1953 AVG. LOW 38 LOWEST 22 YEAR 1966	**27** AVG. HIGH 60 HIGHEST 71 YEAR 1970 AVG. LOW 38 LOWEST 21 YEAR 1966	**28** AVG. HIGH 60 HIGHEST 69 YEAR 1971 AVG. LOW 38 LOWEST 24 YEAR 1963
29 AVG. HIGH 60 HIGHEST 73 YEAR 1967 AVG. LOW 38 LOWEST 28 YEAR 1970	**30** AVG. HIGH 60 HIGHEST 73 YEAR 1967 AVG. LOW 38 LOWEST 20 YEAR 1951	**31** AVG. HIGH 60 HIGHEST 73 YEAR 1971 AVG. LOW 38 LOWEST 16 YEAR 1951				

AVG. MAXIMUM TEMPERATURE	56.5 °	AVG. WIND SPEED	5.8 KNOTS
AVG. MINIMUM TEMPERATURE	34.6 °	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	76 °	AVERAGE RAINFALL	0.44 IN.
RECORD LOW TEMPERATURE	-6 °	AVERAGE SNOWFALL	0.9 IN.
AVG. RELATIVE HUMIDITY	45 %	AVERAGE CLOUDINESS	41 %

GREATEST MONTHLY RAINFALL 1.50 IN., YEAR 1960

GREATEST 24-HOUR RAINFALL 0.96 IN., YEAR 1960, DATE 11th

* ABSOLUTE RECORD LOW TEMPERATURE AT STATION. GREATEST JANUARY SNOWFALL: 5.5 in. 1968

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

F E B R U A R Y MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES F E B R U A R Y

AVG. HIGH 59 HIGHEST 79 YEAR 1963 **1** AVG. LOW 37 LOWEST 8 YEAR 1951	AVG. HIGH 59 HIGHEST 71 YEAR 1963 **2** AVG. LOW 37 LOWEST 9 YEAR 1951	AVG. HIGH 59 HIGHEST 72 YEAR 1953 **3** AVG. LOW 37 LOWEST 13 YEAR 1956	AVG. HIGH 59 HIGHEST 76 YEAR 1963 **4** AVG. LOW 37 LOWEST 14 YEAR 1956	AVG. HIGH 59 HIGHEST 77 YEAR 1963 **5** AVG. LOW 37 LOWEST 24 YEAR 1955	AVG. HIGH 60 HIGHEST 76 YEAR 1963 **6** AVG. LOW 37 LOWEST 22 YEAR 1955	AVG. HIGH 60 HIGHEST 74 YEAR 1963 **7** AVG. LOW 37 LOWEST 22 YEAR 1964
AVG. HIGH 60 HIGHEST 78 YEAR 1957 **8** AVG. LOW 37 LOWEST 25 YEAR 1971	AVG. HIGH 60 HIGHEST 75 YEAR 1962 **9** AVG. LOW 37 LOWEST 18 YEAR 1967	AVG. HIGH 60 HIGHEST 76 YEAR 1962 **10** AVG. LOW 37 LOWEST 22 YEAR 1956	AVG. HIGH 60 HIGHEST 81 YEAR 1957 **11** AVG. LOW 37 LOWEST 17 YEAR 1963	AVG. HIGH 60 HIGHEST 78 YEAR 1962 **12** AVG. LOW 37 LOWEST 16 YEAR 1963	AVG. HIGH 60 HIGHEST 77 YEAR 1957 **13** AVG. LOW 38 LOWEST 18 YEAR 1963	AVG. HIGH 60 HIGHEST 80 YEAR 1957 **14** ** AVG. LOW 38 LOWEST 21 YEAR 1965
AVG. HIGH 60 HIGHEST 72 YEAR 1971 **15** AVG. LOW 38 LOWEST 20 YEAR 1951	AVG. HIGH 59 HIGHEST 72 YEAR 1971 **16** AVG. LOW 38 LOWEST 25 YEAR 1966	AVG. HIGH 59 HIGHEST 75 YEAR 1970 **17** AVG. LOW 37 LOWEST 24 YEAR 1966	AVG. HIGH 59 HIGHEST 74 YEAR 1958 **18** AVG. LOW 37 LOWEST 26 YEAR 1960	AVG. HIGH 59 HIGHEST 73 YEAR 1958 **19** AVG. LOW 37 LOWEST 22 YEAR 1955	AVG. HIGH 59 HIGHEST 73 YEAR 1968 **20** AVG. LOW 37 LOWEST 21 YEAR 1955	AVG. HIGH 59 HIGHEST 69 YEAR 1968 **21** AVG. LOW 38 LOWEST 20 YEAR 1964
AVG. HIGH 60 HIGHEST 75 YEAR 1954 **22** AVG. LOW 38 LOWEST 23 YEAR 1955	AVG. HIGH 60 HIGHEST 73 YEAR 1956 **23** AVG. LOW 38 LOWEST 24 YEAR 1965	AVG. HIGH 61 HIGHEST 73 YEAR 1968 **24** AVG. LOW 38 LOWEST 16 YEAR 1960	AVG. HIGH 61 HIGHEST 75 YEAR 1954 **25** AVG. LOW 39 LOWEST 14 YEAR 1960	AVG. HIGH 62 HIGHEST 72 YEAR 1961 **26** AVG. LOW 39 LOWEST 29 YEAR 1952	AVG. HIGH 62 HIGHEST 73 YEAR 1968 **27** AVG. LOW 39 LOWEST 33 YEAR 1964	AVG. HIGH 62 HIGHEST 72 YEAR 1950 **28** AVG. LOW 40 LOWEST 25 YEAR 1964
AVG. HIGH 62 HIGHEST 67 YEAR 1956 **29** AVG. LOW 40 LOWEST 29 YEAR 1956						

AVERAGE MAXIMUM TEMPERATURE	60.0°	AVERAGE MONTHLY WIND SPEED	6.5 K	; ANNUAL	6.1 K,	
AVERAGE MINIMUM TEMPERATURE	37.6°	PREVAILING WIND DIRECTION	WEST	; ANNUAL	WEST	
RECORD MAXIMUM TEMPERATURE	81°	AVERAGE MONTHLY RAINFALL	0.55 IN.	; ANNUAL	10.30 IN.	
RECORD MINIMUM TEMPERATURE	8°	AVERAGE MONTHLY SNOWFALL	1.4 IN.	; ANNUAL	5.7 IN.	
AVERAGE RELATIVE HUMIDITY	39 %	AVERAGE MONTHLY CLOUDLINESS	37 %	; ANNUAL	36 %	
GREATEST MONTHLY RAINFALL	1.44 IN., YEAR 1957					
GREATEST 24-HOUR RAINFALL	1.01 IN., YEAR 1953, DATE 28th					

** 14th: EARLIEST DATE OF LAST FREEZING TEMPERATURE IN SPRING, 1950

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

MARCH

1	2	3	4	5	6	7
AVG. HIGH 62	AVG. HIGH 62	AVG. HIGH 62	AVG. HIGH 62	AVG. HIGH 63	AVG. HIGH 63	AVG. HIGH 63
HIGHEST 73	HIGHEST 77	HIGHEST 75	HIGHEST 74	HIGHEST 75	HIGHEST 81	HIGHEST 80
YEAR 1959	YEAR 1967	YEAR 1967	YEAR 1956	YEAR 1960	YEAR 1960	YEAR 1960
AVG. LOW 40	AVG. LOW 40	AVG. LOW 40	AVG. LOW 40	AVG. LOW 41	AVG. LOW 41	AVG. LOW 41
LOWEST 27	LOWEST 24	LOWEST 22	LOWEST 16	LOWEST 22	LOWEST 29	LOWEST 29
YEAR 1960	YEAR 1965	YEAR 1971	YEAR 1965	YEAR 1966	YEAR 1959	YEAR 1971
8	**9**	**10**	**11**	**12**	**13**	**14** **
AVG. HIGH 63	AVG. HIGH 63	AVG. HIGH 63	AVG. HIGH 63	AVG. HIGH 64	AVG. HIGH 64	AVG. HIGH 65
HIGHEST 81	HIGHEST 78	HIGHEST 77	HIGHEST 74	HIGHEST 77	HIGHEST 78	HIGHEST 78
YEAR 1960	YEAR 1960	YEAR 1966	YEAR 1966	YEAR 1967	YEAR 1971	YEAR 1966
AVG. LOW 41	AVG. LOW 41	AVG. LOW 41	AVG. LOW 41	AVG. LOW 42	AVG. LOW 42	AVG. LOW 42
LOWEST 28	LOWEST 30	LOWEST 30	LOWEST 27	LOWEST 27	LOWEST 29	LOWEST 28
YEAR 1956	YEAR 1964	YEAR 1969	YEAR 1969	YEAR 1958	YEAR 1970	YEAR 1962
15	**16**	**17**	**18**	**19**	**20**	**21**
AVG. HIGH 65	AVG. HIGH 65	AVG. HIGH 66	AVG. HIGH 66	AVG. HIGH 66	AVG. HIGH 67	AVG. HIGH 67
HIGHEST 80	HIGHEST 77	HIGHEST 81	HIGHEST 82	HIGHEST 78	HIGHEST 79	HIGHEST 77
YEAR 1966	YEAR 1966	YEAR 1967	YEAR 1967	YEAR 1966	YEAR 1966	YEAR 1960
AVG. LOW 42	AVG. LOW 43	AVG. LOW 43	AVG. LOW 43	AVG. LOW 44	AVG. LOW 44	AVG. LOW 44
LOWEST 21	LOWEST 27	LOWEST 32	LOWEST 32	LOWEST 23	LOWEST 26	LOWEST 29
YEAR 1962	YEAR 1969	YEAR 1969	YEAR 1951	YEAR 1965	YEAR 1965	YEAR 1955
22	**23**	**24**	**25**	**26**	**27**	**28**
AVG. HIGH 68	AVG. HIGH 68	AVG. HIGH 69	AVG. HIGH 69	AVG. HIGH 70	AVG. HIGH 70	AVG. HIGH 71
HIGHEST 80	HIGHEST 84	HIGHEST 80	HIGHEST 81	HIGHEST 85	HIGHEST 86	HIGHEST 86
YEAR 1967	YEAR 1971	YEAR 1950	YEAR 1953	YEAR 1971	YEAR 1971	YEAR 1967
AVG. LOW 45	AVG. LOW 45	AVG. LOW 46	AVG. LOW 46	AVG. LOW 47	AVG. LOW 47	AVG. LOW 48
LOWEST 26	LOWEST 28	LOWEST 37	LOWEST 32	LOWEST 23	LOWEST 23	LOWEST 28
YEAR 1952	YEAR 1952	YEAR 1966	YEAR 1969	YEAR 1955	YEAR 1955	YEAR 1955
29 ***	**30**	**31**				
AVG. HIGH 71	AVG. HIGH 72	AVG. HIGH 72				
HIGHEST 80	HIGHEST 81	HIGHEST 84				
YEAR 1967	YEAR 1971	YEAR 1969				
AVG. LOW 48	AVG. LOW 49	AVG. LOW 49				
LOWEST 31	LOWEST 40	LOWEST 37				
YEAR 1951	YEAR 1961	YEAR 1961				

AVG. MAXIMUM TEMPERATURE	65.9°	AVG. WIND SPEED	8.0 KNOTS
AVG. MINIMUM TEMPERATURE	43.3°	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	86°	AVERAGE RAINFALL	0.54 IN.
RECORD LOW TEMPERATURE	16°	AVERAGE SNOWFALL	0.5 IN.
AVG. RELATIVE HUMIDITY	31 %	AVERAGE CLOUDINESS	39 %

GREATEST MONTHLY RAINFALL 3.00 IN., YEAR 1958

GREATEST 24-HOUR RAINFALL 1.46 IN., YEAR 1958, DATE 5-6th

** AVERAGE DATE OF LAST FREEZING TEMPERATURE IN SPRING. *** LATEST DATE OF FREEZING TEMPERATURE IN SPRING

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

APRIL — APRIL

AVG. HIGH 73 HIGHEST 82 YEAR 1969 **1** AVG. LOW 49 LOWEST 40 YEAR 1955	AVG. HIGH 73 HIGHEST 83 YEAR 1966 **2** AVG. LOW 50 LOWEST 35 YEAR 1970	AVG. HIGH 73 HIGHEST 86 YEAR 1954 **3** AVG. LOW 50 LOWEST 35 YEAR 1960	AVG. HIGH 73 HIGHEST 87 YEAR 1967 **4** AVG. LOW 50 LOWEST 37 YEAR 1964	AVG. HIGH 73 HIGHEST 86 YEAR 1959 **5** AVG. LOW 50 LOWEST 34 YEAR 1970	AVG. HIGH 74 HIGHEST 85 YEAR 1954 **6** AVG. LOW 50 LOWEST 36 YEAR 1966	AVG. HIGH 74 HIGHEST 86 YEAR 1963 **7** AVG. LOW 50 LOWEST 39 YEAR 1971
AVG. HIGH 74 HIGHEST 86 YEAR 1963 **8** AVG. LOW 50 LOWEST 4, YEAR 1964	AVG. HIGH 74 HIGHEST 84 YEAR 1954 **9** AVG. LOW 50 LOWEST 41 YEAR 1964	AVG. HIGH 74 HIGHEST 86 YEAR 1960 **10** AVG. LOW 50 LOWEST 41 YEAR 1956	AVG. HIGH 74 HIGHEST 89 YEAR 1971 **11** AVG. LOW 51 LOWEST 34 YEAR 1951	AVG. HIGH 75 HIGHEST 85 YEAR 1971 **12** AVG. LOW 51 LOWEST 37 YEAR 1953	AVG. HIGH 75 HIGHEST 85 YEAR 1962 **13** AVG. LOW 52 LOWEST 36 YEAR 1959	AVG. HIGH 75 HIGHEST 90 YEAR 1963 **14**** AVG. LOW 52 LOWEST 38 YEAR 1958
AVG. HIGH 76 HIGHEST 89 YEAR 1962 **15** AVG. LOW 53 LOWEST 42 YEAR 1956	AVG. HIGH 76 HIGHEST 91 YEAR 1962 **16** AVG. LOW 53 LOWEST 43 YEAR 1961	AVG. HIGH 76 HIGHEST 89 YEAR 1962 **17** AVG. LOW 54 LOWEST 43 YEAR 1969	AVG. HIGH 77 HIGHEST 89 YEAR 1954 **18** AVG. LOW 54 LOWEST 42 YEAR 1971	AVG. HIGH 77 HIGHEST 88 YEAR 1962 **19** AVG. LOW 54 LOWEST 39 YEAR 1971	AVG. HIGH 77 HIGHEST 88 YEAR 1965 **20** AVG. LOW 55 LOWEST 42 YEAR 1968	AVG. HIGH 77 HIGHEST 92 YEAR 1965 **21** AVG. LOW 55 LOWEST 45 YEAR 1959
AVG. HIGH 77 HIGHEST 94 YEAR 1965 **22** AVG. LOW 55 LOWEST 46 YEAR 1952	AVG. HIGH 77 HIGHEST 89 YEAR 1965 **23** AVG. LOW 55 LOWEST 41 YEAR 1968	AVG. HIGH 78 HIGHEST 88 YEAR 1959 **24** AVG. LOW 55 LOWEST 36 YEAR 1968	AVG. HIGH 78 HIGHEST 83 YEAR 1956 **25** AVG. LOW 55 LOWEST 45 YEAR 1961	AVG. HIGH 78 HIGHEST 89 YEAR 1950 **26** AVG. LOW 55 LOWEST 43 YEAR 1964	AVG. HIGH 78 HIGHEST 85 YEAR 1953 **27** AVG. LOW 55 LOWEST 43 YEAR 1969	AVG. HIGH 78 HIGHEST 84 YEAR 1961 **28** AVG. LOW 55 LOWEST 46 YEAR 1969
AVG. HIGH 78 HIGHEST 87 YEAR 1961 **29** AVG. LOW 55 LOWEST 45 YEAR 1951	AVG. HIGH 79 HIGHEST 89 YEAR 1961 **30** AVG. LOW 55 LOWEST 40 YEAR 1970					

AVERAGE MAXIMUM TEMPERATURE	75.4°	AVERAGE MONTHLY WIND SPEED	8.7 KNOTS
AVERAGE MINIMUM TEMPERATURE	52.4°	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	94°	AVERAGE MONTHLY RAINFALL	0.24 INCH
RECORD MINIMUM TEMPERATURE	34°	AVERAGE MONTHLY SNOWFALL	0 INCH
AVERAGE RELATIVE HUMIDITY	26 %	AVERAGE MONTHLY CLOUDINESS	34 %
GREATEST MONTHLY RAINFALL	1.37 IN.,	YEAR 1952	
GREATEST 24-HOUR RAINFALL	0.95 IN.,	YEAR 1952,	DATE 11th

** EARLIEST DATE TEMPERATURE REACHED 90°.

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

MAY

MAY						
AVG. HIGH 79 HIGHEST 90 YEAR 1961 **1** AVG. LOW 56 LOWEST 41 YEAR 1951	AVG. HIGH 79 HIGHEST 87 YEAR 1971 **2** AVG. LOW 56 LOWEST 39 YEAR 1967	AVG. HIGH 80 HIGHEST 89 YEAR 1956 **3** AVG. LOW 56 LOWEST 41 YEAR 1970	AVG. HIGH 80 HIGHEST 91 YEAR 1962 **4** AVG. LOW 57 LOWEST 39 YEAR 1953	AVG. HIGH 81 HIGHEST 92 YEAR 1962 **5** AVG. LOW 57 LOWEST 44 YEAR 1950	AVG. HIGH 81 HIGHEST 92 YEAR 1962 **6** AVG. LOW 57 LOWEST 43 YEAR 1969	AVG. HIGH 82 HIGHEST 93 YEAR 1956 **7** AVG. LOW 58 LOWEST 38 YEAR 1969
AVG. HIGH 82 HIGHEST 93 YEAR 1956 **8** AVG. LOW 58 LOWEST 47 YEAR 1969	AVG. HIGH 82 HIGHEST 93 YEAR 1962 **9** AVG. LOW 59 LOWEST 46 YEAR 1969	AVG. HIGH 83 HIGHEST 94 YEAR 1962 **10** AVG. LOW 59 LOWEST 45 YEAR 1953	AVG. HIGH 83 HIGHEST 95 YEAR 1962 **11** AVG. LOW 59 LOWEST 50 YEAR 1953	AVG. HIGH 83 HIGHEST 93 YEAR 1962 **12** AVG. LOW 60 LOWEST 49 YEAR 1971	AVG. HIGH 84 HIGHEST 93 YEAR 1960 **13** AVG. LOW 60 LOWEST 45 YEAR 1953	AVG. HIGH 84 HIGHEST 95 YEAR 1963 **14** AVG. LOW 60 LOWEST 47 YEAR 1953
AVG. HIGH 84 HIGHEST 94 YEAR 1964 **15** AVG. LOW 60 LOWEST 47 YEAR 1967	AVG. HIGH 84 HIGHEST 93 YEAR 1964 **16** AVG. LOW 61 LOWEST 49 YEAR 1967	AVG. HIGH 85 HIGHEST 93 YEAR 1970 **17** AVG. LOW 61 LOWEST 52 YEAR 1965	AVG. HIGH 85 HIGHEST 97 YEAR 1970 **18** AVG. LOW 61 LOWEST 48 YEAR 1968	AVG. HIGH 85 HIGHEST 96 YEAR 1970 **19** AVG. LOW 62 LOWEST 47 YEAR 1952	AVG. HIGH 86 HIGHEST 98 YEAR 1969 **20** AVG. LOW 62 LOWEST 50 YEAR 1960	AVG. HIGH 86 HIGHEST 94 YEAR 1970 **21** AVG. LOW 62 LOWEST 50 YEAR 1967
AVG. HIGH 86 HIGHEST 93 YEAR 1965 **22** AVG. LOW 62 LOWEST 55 YEAR 1962	AVG. HIGH 87 HIGHEST 94 YEAR 1953 **23** AVG. LOW 63 LOWEST 57 YEAR 1963	AVG. HIGH 87 HIGHEST 99 YEAR 1964 **24** AVG. LOW 63 LOWEST 55 YEAR 1971	AVG. HIGH 87 HIGHEST 95 YEAR 1951 **25** AVG. LOW 63 LOWEST 54 YEAR 1954	AVG. HIGH 88 HIGHEST 100 YEAR 1951 **26** ** AVG. LOW 64 LOWEST 53 YEAR 1967	AVG. HIGH 88 HIGHEST 102 YEAR 1951 **27** AVG. LOW 64 LOWEST 50 YEAR 1950	AVG. HIGH 88 HIGHEST 103 YEAR 1951 **28** AVG. LOW 65 LOWEST 55 YEAR 1952
AVG. HIGH 89 HIGHEST 98 YEAR 1951 **29** AVG. LOW 65 LOWEST 57 YEAR 1962	AVG. HIGH 89 HIGHEST 99 YEAR 1951 **30** AVG. LOW 65 LOWEST 57 YEAR 1962	AVG. HIGH 89 HIGHEST 97 YEAR 1953 **31** AVG. LOW 66 LOWEST 51 YEAR 1964				

AVG. MAXIMUM TEMPERATURE	84.3°	AVG. WIND SPEED	7.9 KNOTS
AVG. MINIMUM TEMPERATURE	60.5°	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	103°	AVERAGE RAINFALL	0.23 IN.
RECORD LOW TEMPERATURE	38°	AVERAGE SNOWFALL	0.0 IN.
AVG. RELATIVE HUMIDITY	24 %	AVERAGE CLOUDINESS	30 %
GREATEST MONTHLY RAINFALL	0.95 IN., YEAR 1959		
GREATEST 24-HOUR RAINFALL	0.82 IN., YEAR 1959, DATE 23rd		

** EARLIEST DATE OF 100° TEMPERATURE AT STATION

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

JUNE — JUNE

AVG. HIGH 89 HIGHEST 96 YEAR 1953 **1** AVG. LOW 65 LOWEST 50 YEAR 1964	AVG. HIGH 89 HIGHEST 96 YEAR 1956 **2** AVG. LOW 65 LOWEST 55 YEAR 1969	AVG. HIGH 89 HIGHEST 100 YEAR 1956 **3** AVG. LOW 66 LOWEST 56 YEAR 1962	AVG. HIGH 90 HIGHEST 99 YEAR 1956 **4** AVG. LOW 66 LOWEST 57 YEAR 1957	AVG. HIGH 90 HIGHEST 94 YEAR 1967 **5** AVG. LOW 66 LOWEST 56 YEAR 1970	AVG. HIGH 90 HIGHEST 97 YEAR 1950 **6** AVG. LOW 67 LOWEST 60 YEAR 1959	AVG. HIGH 90 HIGHEST 99 YEAR 1956 **7** AVG. LOW 67 LOWEST 59 YEAR 1960
AVG. HIGH 91 HIGHEST 101 YEAR 1955 **8** AVG. LOW 67 LOWEST 56 YEAR 1970	AVG. HIGH 91 HIGHEST 98 YEAR 1953 **9** AVG. LOW 68 LOWEST 59 YEAR 1965	AVG. HIGH 91 HIGHEST 98 YEAR 1962 **10** AVG. LOW 68 LOWEST 53 YEAR 1965	AVG. HIGH 92 HIGHEST 98 YEAR 1959 **11** AVG. LOW 68 LOWEST 50 YEAR 1965	AVG. HIGH 92 HIGHEST 98 YEAR 1968 **12** AVG. LOW 68 LOWEST 56 YEAR 1960	AVG. HIGH 92 HIGHEST 101 YEAR 1956 **13** AVG. LOW 68 LOWEST 62 YEAR 1955	AVG. HIGH 93 HIGHEST 99 YEAR 1956 **14** AVG. LOW 69 LOWEST 57 YEAR 1951
AVG. HIGH 93 HIGHEST 101 YEAR 1950 **15** AVG. LOW 69 LOWEST 62 YEAR 1969	AVG. HIGH 93 HIGHEST 99 YEAR 1960 **16** AVG. LOW 69 LOWEST 61 YEAR 1969	AVG. HIGH 94 HIGHEST 100 YEAR 1960 **17** AVG. LOW 70 LOWEST 58 YEAR 1968	AVG. HIGH 94 HIGHEST 103 YEAR 1970 **18** AVG. LOW 70 LOWEST 59 YEAR 1955	AVG. HIGH 95 HIGHEST 104 YEAR 1960 **19** AVG. LOW 70 LOWEST 64 YEAR 1965	AVG. HIGH 95 HIGHEST 103 YEAR 1960 **20** AVG. LOW 71 LOWEST 63 YEAR 1953	AVG. HIGH 95 HIGHEST 105 YEAR 1968 **21** AVG. LOW 71 LOWEST 61 YEAR 1966
AVG. HIGH 95 HIGHEST 104 YEAR 1960 **22** AVG. LOW 71 LOWEST 62 YEAR 1965	AVG. HIGH 96 HIGHEST 102 YEAR 1968 **23** AVG. LOW 72 LOWEST 65 YEAR 1970	AVG. HIGH 96 HIGHEST 102 YEAR 1961 **24** AVG. LOW 72 LOWEST 63 YEAR 1965	AVG. HIGH 96 HIGHEST 102 YEAR 1951 **25** AVG. LOW 72 LOWEST 63 YEAR 1964	AVG. HIGH 96 HIGHEST 103 YEAR 1970 **26** AVG. LOW 72 LOWEST 62 YEAR 1967	AVG. HIGH 96 HIGHEST 103 YEAR 1957 **27** AVG. LOW 72 LOWEST 62 YEAR 1966	AVG. HIGH 95 HIGHEST 106 YEAR 1951 **28** Ø AVG. LOW 72 LOWEST 64 YEAR 1966
AVG. HIGH 95 HIGHEST 106 YEAR 1951 **29** Ø AVG. LOW 71 LOWEST 61 YEAR 1967	AVG. HIGH 95 HIGHEST 103 YEAR 1969 **30** AVG. LOW 71 LOWEST 62 YEAR 1966					

AVERAGE MAXIMUM TEMPERATURE	92.8°	AVERAGE MONTHLY WIND SPEED	6.8 KNOTS
AVERAGE MINIMUM TEMPERATURE	69.0°	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	106 Ø°	AVERAGE MONTHLY RAINFALL	0.88 INCH
RECORD MINIMUM TEMPERATURE	50 °	AVERAGE MONTHLY SNOWFALL	0 INCH
AVERAGE RELATIVE HUMIDITY	27 %	AVERAGE MONTHLY CLOUDINESS	30 %
GREATEST MONTHLY RAINFALL	7.42 IN.,	YEAR 1966	
GREATEST 24-HOUR RAINFALL	2.40 IN.,	YEAR 1966,	DATE 29th

Ø ABSOLUTE MAXIMUM TEMPERATURE AT STATION.

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

JULY — JULY

AVG. HIGH 94 HIGHEST 103 YEAR 1957 **1** AVG. LOW 71 LOWEST 62 YEAR 1970	AVG. HIGH 94 HIGHEST 106 YEAR 1960 **2** Ø AVG. LOW 71 LOWEST 63 YEAR 1971	AVG. HIGH 94 HIGHEST 105 YEAR 1960 **3** AVG. LOW 71 LOWEST 64 YEAR 1971	AVG. HIGH 94 HIGHEST 103 YEAR 1966 **4** AVG. LOW 71 LOWEST 62 YEAR 1968	AVG. HIGH 94 HIGHEST 100 YEAR 1971 **5** AVG. LOW 71 LOWEST 60 YEAR 1968	AVG. HIGH 93 HIGHEST 102 YEAR 1951 **6** AVG. LOW 71 LOWEST 62 YEAR 1968	AVG. HIGH 93 HIGHEST 104 YEAR 1951 **7** AVG. LOW 71 LOWEST 64 YEAR 1960
AVG. HIGH 93 HIGHEST 9 YEAR . **8** Ø AVG. LOW 71 LOWEST 61 YEAR 1952	AVG. HIGH 93 HIGHEST 104 YEAR 1951 **9** AVG. LOW 71 LOWEST 59 YEAR 1952	AVG. HIGH 93 HIGHEST 105 YEAR 1951 **10** AVG. LOW 71 LOWEST 63 YEAR 1969	AVG. HIGH 93 HIGHEST 104 YEAR 1958 **11** AVG. LOW 71 LOWEST 65 YEAR 1962	AVG. HIGH 93 HIGHEST 102 YEAR 1970 **12** AVG. LOW 71 LOWEST 62 YEAR 1959	AVG. HIGH 93 HIGHEST 101 YEAR 1963 **13** AVG. LOW 71 LOWEST 63 YEAR 1964	AVG. HIGH 93 HIGHEST 104 YEAR 1958 **14** AVG. LOW 71 LOWEST 64 YEAR 1950
AVG. HIGH 94 HIGHEST 104 YEAR 1963 **15** AVG. LOW 71 LOWEST 67 YEAR 1952	AVG. HIGH 94 HIGHEST 101 YEAR 1963 **16** AVG. LOW 71 LOWEST 65 YEAR 1952	AVG. HIGH 94 HIGHEST 100 YEAR 1963 **17** AVG. LOW 71 LOWEST 66 YEAR 1969	AVG. HIGH 94 HIGHEST 99 YEAR 1963 **18** AVG. LOW 70 LOWEST 65 YEAR 1956	AVG. HIGH 94 HIGHEST 101 YEAR 1951 **19** AVG. LOW 70 LOWEST 63 YEAR 1962	AVG. HIGH 94 HIGHEST 101 YEAR 1961 **20** AVG. LOW 70 LOWEST 63 YEAR 1955	AVG. HIGH 93 HIGHEST 99 YEAR 1952 **21** AVG. LOW 70 LOWEST 62 YEAR 1955
AVG. HIGH 93 HIGHEST 100 YEAR 1966 **22** AVG. LOW 70 LOWEST 62 YEAR 1950	AVG. HIGH 93 HIGHEST 102 YEAR 1963 **23** AVG. LOW 70 LOWEST 61 YEAR 1955	AVG. HIGH 93 HIGHEST 105 YEAR 1963 **24** AVG. LOW 70 LOWEST 65 YEAR 1970	AVG. HIGH 93 HIGHEST 101 YEAR 1963 **25** AVG. LOW 70 LOWEST 62 YEAR 1970	AVG. HIGH 92 HIGHEST 99 YEAR 1966 **26** AVG. LOW 70 LOWEST 62 YEAR 1950	AVG. HIGH 92 HIGHEST 102 YEAR 1954 **27** AVG. LOW 70 LOWEST 62 YEAR 1962	AVG. HIGH 92 HIGHEST 102 YEAR 1954 **28** AVG. LOW 70 LOWEST 65 YEAR 1970
AVG. HIGH 92 HIGHEST 100 YEAR 1960 **29** AVG. LOW 70 LOWEST 63 YEAR 1962	AVG. HIGH 92 HIGHEST 100 YEAR 1969 **30** AVG. LOW 70 LOWEST 62 YEAR 1962	AVG. HIGH 92 HIGHEST 97 YEAR 1967 **31** AVG. LOW 70 LOWEST 63 YEAR 1968				

AVG. MAXIMUM TEMPERATURE	93.3 °	AVG. WIND SPEED	4.9 KNOTS
AVG. MINIMUM TEMPERATURE	70.5 °	PREVAILING WIND DIR.	SE
RECORD HIGH TEMPERATURE	106 Ø°	AVERAGE RAINFALL	2.19 IN.
RECORD LOW TEMPERATURE	59 °	AVERAGE SNOWFALL	0.0 IN.
AVG. RELATIVE HUMIDITY	43 %	AVERAGE CLOUDINESS	47 %
GREATEST MONTHLY RAINFALL	5.63 IN., YEAR 1962		
GREATEST 24-HOUR RAINFALL	2.31 IN., YEAR 1961, DATE 4th		

Ø ABSOLUTE RECORD MAXIMUM TEMPERATURE AT STATION: 106° ON THREE DAYS IN 1951 AND ONE DAY IN 1960.

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

AUGUST — MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES — AUGUST

AVG. HIGH 92 HIGHEST 102 YEAR 1966 **1** AVG. LOW 70 LOWEST 62 YEAR 1965	AVG. HIGH 92 HIGHEST 101 YEAR 1969 **2** AVG. LOW 70 LOWEST 63 YEAR 1971	AVG. HIGH 92 HIGHEST 98 YEAR 1969 **3** AVG. LOW 70 LOWEST 63 YEAR 1971	AVG. HIGH 93 HIGHEST 99 YEAR 1969 **4** AVG. LOW 70 LOWEST 65 YEAR 1971	AVG. HIGH 93 HIGHEST 100 YEAR 1969 **5** AVG. LOW 70 LOWEST 64 YEAR 1970	AVG. HIGH 93 HIGHEST 100 YEAR 1969 **6** AVG. LOW 70 LOWEST 62 YEAR 1971	AVG. HIGH 94 HIGHEST 101 YEAR 1951 **7** AVG. LOW 70 LOWEST 63 YEAR 1971
AVG. HIGH 94 HIGHEST 101 YEAR 1951 **8** AVG. LOW 70 LOWEST 59 YEAR 1971	AVG. HIGH 94 HIGHEST 100 YEAR 1951 **9** AVG. LOW 70 LOWEST 61 YEAR 1971	AVG. HIGH 93 HIGHEST 100 YEAR 1951 **10** AVG. LOW 70 LOWEST 63 YEAR 1967	AVG. HIGH 93 HIGHEST 101 YEAR 1964 **11** AVG. LOW 70 LOWEST 61 YEAR 1960	AVG. HIGH 93 HIGHEST 98 YEAR 1969 **12** AVG. LOW 69 LOWEST 59 YEAR 1966	AVG. HIGH 92 HIGHEST 99 YEAR 1969 **13** AVG. LOW 69 LOWEST 64 YEAR 1960	AVG. HIGH 92 HIGHEST 100 YEAR 1962 **14** AVG. LOW 69 LOWEST 65 YEAR 1967
AVG. HIGH 92 HIGHEST 100 YEAR 1969 **15** AVG. LOW 69 LOWEST 62 YEAR 1965	AVG. HIGH 91 HIGHEST 100 YEAR 1969 **16** AVG. LOW 69 LOWEST 60 YEAR 1967	AVG. HIGH 91 HIGHEST 103 YEAR 1969 **17** AVG. LOW 69 LOWEST 62 YEAR 1968	AVG. HIGH 91 HIGHEST 99 YEAR 1969 **18** AVG. LOW 69 LOWEST 63 YEAR 1967	AVG. HIGH 90 HIGHEST 98 YEAR 1969 **19** AVG. LOW 69 LOWEST 64 YEAR 1971	AVG. HIGH 90 HIGHEST 98 YEAR 1969 **20** AVG. LOW 68 LOWEST 62 YEAR 1967	AVG. HIGH 90 HIGHEST 100 YEAR 1952 **21** ØØ AVG. LOW 68 LOWEST 63 YEAR 1968
AVG. HIGH 90 HIGHEST 97 YEAR 1950 **22** AVG. LOW 68 LOWEST 63 YEAR 1967	AVG. HIGH 90 HIGHEST 96 YEAR 1969 **23** AVG. LOW 68 LOWEST 62 YEAR 1966	AVG. HIGH 90 HIGHEST 97 YEAR 1950 **24** AVG. LOW 68 LOWEST 62 YEAR 1954	AVG. HIGH 90 HIGHEST 97 YEAR 1964 **25** AVG. LOW 68 LOWEST 59 YEAR 1966	AVG. HIGH 90 HIGHEST 96 YEAR 1960 **26** AVG. LOW 68 LOWEST 55 YEAR 1965	AVG. HIGH 89 HIGHEST 98 YEAR 1965 **27** AVG. LOW 68 LOWEST 63 YEAR 1970	AVG. HIGH 89 HIGHEST 98 YEAR 1962 **28** AVG. LOW 68 LOWEST 63 YEAR 1952
AVG. HIGH 89 HIGHEST 98 YEAR 1962 **29** AVG. LOW 68 LOWEST 63 YEAR 1970	AVG. HIGH 89 HIGHEST 98 YEAR 1962 **30** AVG. LOW 68 LOWEST 61 YEAR 1967	AVG. HIGH 89 HIGHEST 98 YEAR 1950 **31** AVG. LOW 68 LOWEST 58 YEAR 1967	AVG. MAXIMUM TEMPERATURE 91.1 ° AVG. MINIMUM TEMPERATURE 68.8 ° RECORD HIGH TEMPERATURE 103 ° RECORD LOW TEMPERATURE 55 ° AVG. RELATIVE HUMIDITY 43 % GREATEST MONTHLY RAINFALL 6.32 IN., YEAR 1959 GREATEST 24-HOUR RAINFALL 4.25 IN., YEAR 1959, DATE 23-24		AVG. WIND SPEED 4.7 KNOTS PREVAILING WIND DIR. WEST AVERAGE RAINFALL 1.77 IN. AVERAGE SNOWFALL 0.0 IN. AVERAGE CLOUDINESS 44 %	

ØØ LATEST DATE OF 100° TEMPERATURE AT STATION, 1952.

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

SEPTEMBER MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES SEPTEMBER

AVG. HIGH 88 HIGHEST 97 YEAR 1951 **1** AVG. LOW 67 LOWEST 57 YEAR 1967	AVG. HIGH 88 HIGHEST 98 YEAR 1951 **2** AVG. LOW 67 LOWEST 58 YEAR 1968	AVG. HIGH 88 HIGHEST 98 YEAR 1951 **3** AVG. LOW 66 LOWEST 61 YEAR 1963	AVG. HIGH 88 HIGHEST 97 YEAR 1951 **4** AVG. LOW 66 LOWEST 53 YEAR 1961	AVG. HIGH 88 HIGHEST 98 YEAR 1951 **5** AVG. LOW 65 LOWEST 56 YEAR 1961	AVG. HIGH 88 HIGHEST 97 YEAR 1951 **6** AVG. LOW 65 LOWEST 59 YEAR 1967	AVG. HIGH 88 HIGHEST 96 YEAR 1959 **7** AVG. LOW 65 LOWEST 58 YEAR 1968
AVG. HIGH 88 HIGHEST 97 YEAR 1971 **8** AVG. LOW 65 LOWEST 58 YEAR 1966	AVG. HIGH 87 HIGHEST 97 YEAR 1970 **9** AVG. LOW 64 LOWEST 59 YEAR 1966	AVG. HIGH 87 HIGHEST 95 YEAR 1951 **10** AVG. LOW 64 LOWEST 58 YEAR 1956	AVG. HIGH 87 HIGHEST 91 YEAR 1971 **11** AVG. LOW 64 LOWEST 57 YEAR 1966	AVG. HIGH 87 HIGHEST 94 YEAR 1970 **12** AVG. LOW 64 LOWEST 59 YEAR 1959	AVG. HIGH 87 HIGHEST 92 YEAR 1956 **13** AVG. LOW 64 LOWEST 55 YEAR 1968	AVG. HIGH 87 HIGHEST 94 YEAR 1971 **14** AVG. LOW 64 LOWEST 54 YEAR 1959
AVG. HIGH 87 HIGHEST 95 YEAR 1956 **15** AVG. LOW 64 LOWEST 58 YEAR 1961	AVG. HIGH 87 HIGHEST 98 YEAR 1956 **16** AVG. LOW 63 LOWEST 54 YEAR 1961	AVG. HIGH 86 HIGHEST 96 YEAR 1956 **17** AVG. LOW 63 LOWEST 55 YEAR 1968	AVG. HIGH 86 HIGHEST 95 YEAR 1953 **18** AVG. LOW 63 LOWEST 49 YEAR 1971	AVG. HIGH 86 HIGHEST 95 YEAR 1954 **19** AVG. LOW 63 LOWEST 47 YEAR 1971	AVG. HIGH 86 HIGHEST 95 YEAR 1954 **20** AVG. LOW 63 LOWEST 47 YEAR 1971	AVG. HIGH 86 HIGHEST 92 YEAR 1951 **21** AVG. LOW 63 LOWEST 51 YEAR 1965
AVG. HIGH 85 HIGHEST 92 YEAR 1956 **22** AVG. LOW 63 LOWEST 52 YEAR 1965	AVG. HIGH 85 HIGHEST 93 YEAR 1951 **23** AVG. LOW 62 LOWEST 47 YEAR 1970	AVG. HIGH 84 HIGHEST 94 YEAR 1951 **24** AVG. LOW 62 LOWEST 50 YEAR 1971	AVG. HIGH 84 HIGHEST 94 YEAR 1951 **25** AVG. LOW 62 LOWEST 51 YEAR 1971	AVG. HIGH 84 HIGHEST 96 YEAR 1951 **26** AVG. LOW 61 LOWEST 49 YEAR 1970	AVG. HIGH 84 HIGHEST 95 YEAR 1951 **27** AVG. LOW 61 LOWEST 49 YEAR 1970	AVG. HIGH 84 HIGHEST 92 YEAR 1956 **28** AVG. LOW 60 LOWEST 46 YEAR 1970
AVG. HIGH 84 HIGHEST 93 YEAR 1951 **29** AVG. LOW 60 LOWEST 48 YEAR 1970	AVG. HIGH 83 HIGHEST 89 YEAR 1951 **30** AVG. LOW 60 LOWEST 48 YEAR 1970					

AVERAGE MAXIMUM TEMPERATURE	86.1 °	AVERAGE MONTHLY WIND SPEED	4.8 KNOTS
AVERAGE MINIMUM TEMPERATURE	63.3 °	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	98 °	AVERAGE MONTHLY RAINFALL	1.30 INCH
RECORD MINIMUM TEMPERATURE	46 °	AVERAGE MONTHLY SNOWFALL	0.0 INCH
AVERAGE RELATIVE HUMIDITY	42 %	AVERAGE MONTHLY CLOUDINESS	31 %
GREATEST MONTHLY RAINFALL	5.76 IN.,	YEAR 1958	
GREATEST 24-HOUR RAINFALL	2.96 IN.,	YEAR 1964,	DATE 11-12

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

OCTOBER — OCTOBER

AVG. HIGH 83 HIGHEST 91 YEAR 1951 **1** AVG. LOW 59 LOWEST 48 YEAR 1965	AVG. HIGH 83 HIGHEST 88 YEAR 1951 **2** AVG. LOW 59 LOWEST 48 YEAR 1965	AVG. HIGH 82 HIGHEST 88 YEAR 1967 **3** AVG. LOW 58 LOWEST 48 YEAR 1961	AVG. HIGH 82 HIGHEST 88 YEAR 1956 **4** AVG. LOW 58 LOWEST 46 YEAR 1961	AVG. HIGH 82 HIGHEST 90 YEAR 1956 **5** AVG. LOW 57 LOWEST 49 YEAR 1953	AVG. HIGH 82 HIGHEST 90 YEAR 1956 **6** AVG. LOW 57 LOWEST 49 YEAR 1968	AVG. HIGH 81 HIGHEST 87 YEAR 1965 **7** AVG. LOW 57 LOWEST 45 YEAR 1952
AVG. HIGH 81 HIGHEST 90 YEAR 1965 **8** AVG. LOW 57 LOWEST 44 YEAR 1970	AVG. HIGH 81 HIGHEST 92 YEAR 1965 **9** AVG. LOW 57 LOWEST 39 YEAR 1970	AVG. HIGH 80 HIGHEST 89 YEAR 1965 **10** AVG. LOW 57 LOWEST 48 YEAR 1951	AVG. HIGH 80 HIGHEST 88 YEAR 1951 **11** AVG. LOW 56 LOWEST 48 YEAR 1961	AVG. HIGH 79 HIGHEST 88 YEAR 1951 **12** AVG. LOW 56 LOWEST 45 YEAR 1970	AVG. HIGH 79 HIGHEST 88 YEAR 1968 **13** AVG. LOW 55 LOWEST 45 YEAR 1969	AVG. HIGH 78 HIGHEST 90 YEAR 1968 **14** ØØ AVG. LOW 55 LOWEST 42 YEAR 1969
AVG. HIGH 78 HIGHEST 86 YEAR 1951 **15** AVG. LOW 54 LOWEST 45 YEAR 1966	AVG. HIGH 77 HIGHEST 85 YEAR 1950 **16** AVG. LOW 54 LOWEST 53 YEAR 1970	AVG. HIGH 77 HIGHEST 86 YEAR 1952 **17** AVG. LOW 53 LOWEST 41 YEAR 1967	AVG. HIGH 76 HIGHEST 82 YEAR 1969 **18** AVG. LOW 53 LOWEST 38 YEAR 1968	AVG. HIGH 76 HIGHEST 85 YEAR 1950 **19** AVG. LOW 52 LOWEST 40 YEAR 1970	AVG. HIGH 75 HIGHEST 82 YEAR 1954 **20** AVG. LOW 52 LOWEST 38 YEAR 1971	AVG. HIGH 75 HIGHEST 85 YEAR 1961 **21** AVG. LOW 51 LOWEST 43 YEAR 1964
AVG. HIGH 74 HIGHEST 84 YEAR 1950 **22** AVG. LOW 51 LOWEST 46 YEAR 1965	AVG. HIGH 74 HIGHEST 85 YEAR 1959 **23** AVG. LOW 50 LOWEST 44 YEAR 1968	AVG. HIGH 73 HIGHEST 83 YEAR 1950 **24** AVG. LOW 50 LOWEST 43 YEAR 1970	AVG. HIGH 73 HIGHEST 86 YEAR 1950 **25** AVG. LOW 50 LOWEST 44 YEAR 1968	AVG. HIGH 72 HIGHEST 82 YEAR 1968 **26** AVG. LOW 50 LOWEST 42 YEAR 1964	AVG. HIGH 72 HIGHEST 83 YEAR 1950 **27** AVG. LOW 49 LOWEST 38 YEAR 1970	AVG. HIGH 71 HIGHEST 85 YEAR 1950 **28** AVG. LOW 49 LOWEST 35 YEAR 1970
AVG. HIGH 71 HIGHEST 83 YEAR 1950 **29** AVG. LOW 48 LOWEST 35 YEAR 1970	AVG. HIGH 70 HIGHEST 85 YEAR 1950 **30** AVG. LOW 48 LOWEST 36 YEAR 1967	AVG. HIGH 70 HIGHEST 85 YEAR 1950 **31** AVG. LOW 47 LOWEST 34 YEAR 1956				

AVG. MAXIMUM TEMPERATURE	76.4 °	AVG. WIND SPEED	4.9 KNOTS
AVG. MINIMUM TEMPERATURE	53.2 °	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	92 °	AVERAGE RAINFALL	0.99 IN.
RECORD LOW TEMPERATURE	33 °	AVERAGE SNOWFALL	0.0 IN.
AVG. RELATIVE HUMIDITY	41 %	AVERAGE CLOUDINESS	25 %

GREATEST MONTHLY RAINFALL 2.99 IN., YEAR 1955

GREATEST 24-HOUR RAINFALL 1.91 IN., YEAR 1955. DATE 3-4

ØØ LATEST DATE OF 90° TEMPERATURE AT STATION, 1965.

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

N O V E M B E R MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES N O V E M B E R

AVG. HIGH 69 HIGHEST 84 YEAR 1950 **1** AVG. LOW 46 LOWEST 39 YEAR 1966	AVG. HIGH 69 HIGHEST 77 YEAR 1952 **2** AVG. LOW 46 LOWEST 33 YEAR 1966	AVG. HIGH 68 HIGHEST 74 YEAR 1960 **3** AVG. LOW 45 LOWEST 33 YEAR 1969	AVG. HIGH 68 HIGHEST 75 YEAR 1968 **4** *** AVG. LOW 45 LOWEST 32 YEAR 1967	AVG. HIGH 67 HIGHEST 76 YEAR 1971 **5** AVG. LOW 44 LOWEST 34 YEAR 1970	AVG. HIGH 67 HIGHEST 79 YEAR 1950 **6** AVG. LOW 44 LOWEST 29 YEAR 1959	AVG. HIGH 66 HIGHEST 83 YEAR 1950 **7** AVG. LOW 43 LOWEST 29 YEAR 1959
AVG. HIGH 66 HIGHEST 80 YEAR 1950 **8** AVG. LOW 43 LOWEST 33 YEAR 1955	AVG. HIGH 66 HIGHEST 76 YEAR 1969 **9** AVG. LOW 43 LOWEST 28 YEAR 1955	AVG. HIGH 65 HIGHEST 76 YEAR 1969 **10** AVG. LOW 42 LOWEST 25 YEAR 1950	AVG. HIGH 65 HIGHEST 75 YEAR 1969 **11** AVG. LOW 42 LOWEST 22 YEAR 1950	AVG. HIGH 65 HIGHEST 77 YEAR 1971 **12** AVG. LOW 42 LOWEST 28 YEAR 1950	AVG. HIGH 65 HIGHEST 74 YEAR 1965 **13** AVG. LOW 42 LOWEST 34 YEAR 1961	AVG. HIGH 64 HIGHEST 77 YEAR 1962 **14** AVG. LOW 42 LOWEST 28 YEAR 1959
AVG. HIGH 64 HIGHEST 77 YEAR 1966 **15** AVG. LOW 42 LOWEST 30 YEAR 1961	AVG. HIGH 64 HIGHEST 80 YEAR 1966 **16** AVG. LOW 41 LOWEST 26 YEAR 1956	AVG. HIGH 64 HIGHEST 81 YEAR 1966 **17** AVG. LOW 41 LOWEST 28 YEAR 1959	AVG. HIGH 64 HIGHEST 77 YEAR 1966 **18** AVG. LOW 41 LOWEST 26 YEAR 1958	AVG. HIGH 63 HIGHEST 74 YEAR 1965 **19** AVG. LOW 40 LOWEST 25 YEAR 1969	AVG. HIGH 63 HIGHEST 73 YEAR 1966 **20** AVG. LOW 40 LOWEST 26 YEAR 1969	AVG. HIGH 63 HIGHEST 73 YEAR 1955 **21** ** AVG. LOW 40 LOWEST 25 YEAR 1956
AVG. HIGH 62 HIGHEST 74 YEAR 1950 **22** AVG. LOW 40 LOWEST 25 YEAR 1964	AVG. HIGH 62 HIGHEST 75 YEAR 1965 **23** AVG. LOW 39 LOWEST 30 YEAR 1964	AVG. HIGH 62 HIGHEST 73 YEAR 1965 **24** AVG. LOW 39 LOWEST 28 YEAR 1970	AVG. HIGH 61 HIGHEST 75 YEAR 1965 **25** AVG. LOW 39 LOWEST 30 YEAR 1956	AVG. HIGH 61 HIGHEST 75 YEAR 1960 **26** AVG. LOW 39 LOWEST 25 YEAR 1952	AVG. HIGH 61 HIGHEST 72 YEAR 1950 **27** AVG. LOW 38 LOWEST 24 YEAR 1952	AVG. HIGH 60 HIGHEST 73 YEAR 1970 **28** AVG. LOW 38 LOWEST 25 YEAR 1959
AVG. HIGH 60 HIGHEST 74 YEAR 1970 **29** AVG. LOW 38 LOWEST 28 YEAR 1965	AVG. HIGH 60 HIGHEST 72 YEAR 1950 **30** AVG. LOW 38 LOWEST 30 YEAR 1963					

AVERAGE MAXIMUM TEMPERATURE	64.0°	AVERAGE MONTHLY WIND SPEED	5.3 KNOTS
AVERAGE MINIMUM TEMPERATURE	41.3°	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	84°	AVERAGE MONTHLY RAINFALL	0.42 INCH
RECORD MINIMUM TEMPERATURE	22°	AVERAGE MONTHLY SNOWFALL	0.8 INCH
AVERAGE RELATIVE HUMIDITY	43 %	AVERAGE MONTHLY CLOUDINESS	30 %
GREATEST MONTHLY RAINFALL	2.40 IN., YEAR 1961		
GREATEST 24-HOUR RAINFALL	0.89 IN., YEAR 1961, DATE 8th		

*** EARLIEST DATE OF FIRST FREEZING TEMPERATURE, 1967. ** AVERAGE DATE OF FIRST FREEZING TEMPERATURE.

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

D E C E M B E R MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES D E C E M B E R

AVG. HIGH 59 HIGHEST 73 YEAR 1961 **1** AVG. LOW 38 LOWEST 31 YEAR 1969	AVG. HIGH 59 HIGHEST 71 YEAR 1970 **2** AVG. LOW 38 LOWEST 25 YEAR 1957	AVG. HIGH 59 HIGHEST 71 YEAR 1954 **3** AVG. LOW 37 LOWEST 27 YEAR 1968	AVG. HIGH 58 HIGHEST 77 YEAR 1958 **4** AVG. LOW 37 LOWEST 28 YEAR 1963	AVG. HIGH 58 HIGHEST 73 YEAR 1958 **5** AVG. LOW 36 LOWEST 24 YEAR 1952	AVG. HIGH 58 HIGHEST 68 YEAR 1966 **6** AVG. LOW 36 LOWEST 19 YEAR 1950	AVG. HIGH 57 HIGHEST 70 YEAR 1954 **7** AVG. LOW 36 LOWEST 24 YEAR 1953
AVG. HIGH 57 HIGHEST 70 YEAR 1970 **8** AVG. LOW 36 LOWEST 25 YEAR 1968	AVG. HIGH 57 HIGHEST 73 YEAR 1950 **9** AVG. LOW 36 LOWEST 21 YEAR 1953	AVG. HIGH 56 HIGHEST 65 YEAR 1958 **10** AVG. LOW 35 LOWEST 20 YEAR 1951	AVG. HIGH 56 HIGHEST 72 YEAR 1950 **11** AVG. LOW 35 LOWEST 20 YEAR 1960	AVG. HIGH 56 HIGHEST 70 YEAR 1958 **12** AVG. LOW 35 LOWEST 22 YEAR 1953	AVG. HIGH 55 HIGHEST 69 YEAR 1950 **13** AVG. LOW 34 LOWEST 24 YEAR 1966	AVG. HIGH 55 HIGHEST 70 YEAR 1950 **14** AVG. LOW 34 LOWEST 21 YEAR 1964
AVG. HIGH 55 HIGHEST 67 YEAR 1950 **15** AVG. LOW 34 LOWEST 22 YEAR 1957	AVG. HIGH 55 HIGHEST 66 YEAR 1969 **16** AVG. LOW 33 LOWEST 26 YEAR 1963	AVG. HIGH 55 HIGHEST 67 YEAR 1970 **17** AVG. LOW 33 LOWEST 22 YEAR 1971	AVG. HIGH 55 HIGHEST 65 YEAR 1969 **18** AVG. LOW 33 LOWEST 24 YEAR 1964	AVG. HIGH 55 HIGHEST 64 YEAR 1969 **19** AVG. LOW 33 LOWEST 26 YEAR 1968	AVG. HIGH 55 HIGHEST 69 YEAR 1969 **20** AVG. LOW 33 LOWEST 26 YEAR 1965	AVG. HIGH 55 HIGHEST 67 YEAR 1969 **21** AVG. LOW 33 LOWEST 25 YEAR 1967
AVG. HIGH 55 HIGHEST 69 YEAR 1969 **22** AVG. LOW 33 LOWEST 22 YEAR 1967	AVG. HIGH 54 HIGHEST 71 YEAR 1955 **23** AVG. LOW 33 LOWEST 17 YEAR 1953	AVG. HIGH 54 HIGHEST 71 YEAR 1955 **24** AVG. LOW 33 LOWEST 8 YEAR 1953	AVG. HIGH 54 HIGHEST 70 YEAR 1971 **25** AVG. LOW 33 LOWEST 20 YEAR 1953	AVG. HIGH 54 HIGHEST 70 YEAR 1971 **26** AVG. LOW 33 LOWEST 21 YEAR 1953	AVG. HIGH 54 HIGHEST 69 YEAR 1955 **27** AVG. LOW 33 LOWEST 24 YEAR 1953	AVG. HIGH 54 HIGHEST 70 YEAR 1955 **28** AVG. LOW 33 LOWEST 22 YEAR 1966
AVG. HIGH 54 HIGHEST 69 YEAR 1955 **29** AVG. LOW 33 LOWEST 18 YEAR 1966	AVG. HIGH 54 HIGHEST 73 YEAR 1951 **30** AVG. LOW 33 LOWEST 21 YEAR 1958	AVG. HIGH 54 HIGHEST 66 YEAR 1964 **31** AVG. LOW 33 LOWEST 21 YEAR 1958				

AVG. MAXIMUM TEMPERATURE	56.5 °	AVG. WIND SPEED	5.4 KNOTS
AVG. MINIMUM TEMPERATURE	34.6 °	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	77 °	AVERAGE RAINFALL	0.75 IN.
RECORD LOW TEMPERATURE	8 °	AVERAGE SNOWFALL	2.24 IN.
AVG. RELATIVE HUMIDITY	47 %	AVERAGE CLOUDINESS	37 %
GREATEST MONTHLY RAINFALL	2.43 IN., YEAR 1965		
GREATEST 24-HOUR RAINFALL	1.02 IN., YEAR 1967, DATE 14-15		

** LATEST DATE OF FIRST FALL FREEZING TEMPERATURE, 1954.

MONTH	1948-1971 [6]											1950-71						1961-63		
	STATION PRESSURE (INCHES OF MERCURY)			SIX-HOURLY RELATIVE HUMIDITY					AVERAGE NUMBER OF DAYS WITH:								AVG. DEGREE DAYS, BASE 65°F Ø	GREATEST SNOWFALL		AVG. DAILY SOLAR RADIATION ØØ
	MEANS	HIGHEST	LOWEST	5 AM	11 AM	5 PM	11 PM	MEANS	THUNDERSTORMS	↳	PRECIPITATION T	PRECIPITATION ≥.01"	PRECIPITATION ≥.10"	VISIBILITY +	VISIBILITY ++		SINGLE STORM	MONTHLY	
JAN	25.772	26.240	25.160	54	42	38	47	45	-	*	5	3	1	2	1	600	5.5	5.5	332
FEB	25.726	26.170	25.180	49	36	29	40	39	-	*	5	3	2	2	2	454	7-8 ----1968		
MAR	25.676	26.180	25.180	41	28	22	33	31	1	1	6	4	2	1	4	321	8.6	8.6	410
APR	25.664	26.160	25.190	35	23	17	27	26	1	1	4	2	1	-	4	94	14-15----1952		
MAY	25.672	26.080	25.290	34	21	16	25	24	4	2	5	2	1	-	2	16	3.5	3.5	508
JUN	25.676	25.970	25.310	38	23	18	28	27	6	4	7	3	2	-	3	0	11-12----1958		
JUL	25.751	26.050	25.470	58	36	31	46	43	13	8	15	8	4	1	3	0	T	T	624
AUG	25.765	26.010	25.510	59	37	31	45	43	10	7	14	8	4	1	1	0	0	0	679
SEP	25.752	26.050	25.410	56	36	30	45	42	5	6	8	5	3	1	1	4	0	0	692
OCT	25.767	26.220	25.300	51	33	29	42	39	2	2	5	3	3	1	1	75	0	0	632
NOV	25.771	26.240	25.290	51	34	34	44	41	-	1	4	2	1	1	1	363	T	T	584
DEC	25.771	26.285	25.200	56	42	38	49	46	-	*	6	4	2	3	*	601	6.2	6.2	538
YEAR	25.730	26.285	25.160	49	33	28	39	37	43	32	84	47	26	14	23	2528	14th ----1961		485
																	14.0	14.9	340
																	14-17----1967		331
																	14.0	14.9	513

* LESS THAN $\frac{1}{2}$. - LESS THAN $\frac{1}{2}$, BUT MAKING A TOTAL OF 1. ↳ DISTANT LIGHTNING--NO THUNDER HEARD.

\+ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO PRECIPITATION AND FOG. Ø HEATING DEGREE DAYS.

++ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO HAZE, DUST AND BLOWING DUST. T TRACE OF PRECIPITATION.

ØØ MEASUREMENTS IN LANGLEYS, MADE ON ROOF OF BUILDING 1744, WSMR HEADQUARTERS, BY CALIBRATION LABORATORY.

TABLE IV. MONTHLY AND ANNUAL CLIMATOLOGICAL DATA, "A" STATION, WSMR HEADQUARTERS

ITEM	WINTER	SPRING	SUMMER	FALL	YEAR
TEMPERATURES (°F)					
Mean Maximum	57.4	75.2	92.4	75.5	75.1
Mean Minimum	35.6	52.1	69.4	52.6	52.4
Mean	46.4	63.7	80.9	64.1	63.8
Extremes of Record					
Highest	81	103	106	98	106
Date	2/11/57	5/28/51	*	9/16/51	*
Lowest	-6	16	50	22	-6
Date	1/11/62	3/4/65	6/11/65	11/11/50	1/11/62
DEGREE DAYS (Base 65°F)	1655	431	0	442	2528
RELATIVE HUMIDITY (%)	43	27	38	401	37
SURFACE WINDS (Knots)					
Average Speed	W 5.9	W 8.2	W 5.5	W 5.0	W 6.1
Strongest Gusts	SW 82	W, WSW 74	S 60	W 61	SW 82
Month and Year	12/51	3/51, 5/61	6/62	11/65	Dec. '51
RAINFALL (Inches) Ø	1.74	1.01	4.84	2.71	10.30
Percent of Annual	17%	10%	47%	26%	100%
Greatest Monthly	2.43	3.00	7.42	5.76	7.42
Month and Year	12/65	3/58	6/66	9/58	6/66
Greatest 24-Hour	1.02	1.46	4.25	2.96	4.25
Dates	12/14-15/67	3/5-6/58	8/23-24/59	9/11-12/64	1959
SNOWFALL (Inches)	4.7	0.5	0.0	0.8	6.0
Greatest Monthly	14.9	3.5	0.0	6.2	14.9
Month and Year	12/67	3/58	- - -	11/61	1967
CLOUDINESS (%)	38	34	41	29	36
NUMBER OF DAYS WITH:					
Measurable Rainfall	10	9	19	10	48
Thunderstorms	1	5	30	8	44
Visibility $\leq$ 6 Miles	10	11	9	6	36
Ø 0.01" or more					
STATION PRESSURE					
Average (Inches of Hg)	25.756	25.670	25.731	24.763	24.730

WINTER = Months of December, January, February.
SPRING = March, April, May. SUMMER = June, July, August.
Fall = September, October, November.

** With Prevailing Wind Directions. To convert knots to miles per hour, multiply knots by 1.15155.

* Four Dates: June 28 & 29, 1951; July 8, 1951; July 2, 1960.

Ø "Rainfall" includes water content of snowfall.

TABLE V. "A" STATION CLIMATOGRAPHY--SEASONAL VALUES, 1950-1971